

Docket No. 220357US0PCT

10/088518
JC13 PCT/PTC 29 MAR 2002

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF: Zhijian XUE, et al.

SERIAL NO: New US PCT application based on PCT/EP00/09915

GAU:

FILED: Herewith

EXAMINER:

FOR: PREPARING AN AQUEOUS DISPERSION OF PARTICLES COMPOSED OF ADDITION POLYMER AND FINELY DIVIDED INORGANIC SOLID

INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.97

ASSISTANT COMMISSIONER FOR PATENTS
WASHINGTON, D.C. 20231

SIR:

Applicant(s) wish to disclose the following information.

REFERENCES

- ☒ The applicant(s) wish to make of record the references listed on the attached form PTO-1449. Copies of the listed references are attached, where required, as are either statements of relevancy or any readily available English translations of pertinent portions of any non-English language references.
- ☐ A check is attached in the amount required under 37 CFR §1.17(p).

RELATED CASES

- ☐ Attached is a list of applicant's pending application(s) or issued patent(s) which may be related to the present application. A copy of the patent(s), together with a copy of the claims and drawings of the pending application(s) is attached along with PTO 1449.
- ☐ A check is attached in the amount required under 37 CFR §1.17(p).

CERTIFICATION

- ☐ Each item of information contained in this information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement.
- ☐ No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned, having made reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this statement.

DEPOSIT ACCOUNT

- ☒ Please charge any additional fees for the papers being filed herewith and for which no check is enclosed herewith, or credit any overpayment to deposit account number 15-0030. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

OBLON, SPIVAK, McCLELLAND,
MAIER & NEUSTADT, P.C.

Norman F. Oblon

Norman F. Oblon

Registration No. 24,618

Surinder Sachar

Registration No. 34,423



22850

Tel. (703) 413-3000
Fax. (703) 413-2220
(OSMMN 10/01)

New U.S. PCT Application Based on PCT/EP00/09915
Docket No: 220357US0PCT

STATEMENT OF RELEVANCY

1) References AA-AE and AH-AJ have been cited in the International Search Report. Copies of these references are being submitted herewith only when not automatically provided by the International Searching Authority.

2) References _____ have been cited in the corresponding _____ Search Report. A copy of these references is being submitted herewith.

3) References AF-AG and AK-AW are discussed in the specification. A copy of these references is being submitted herewith.

4) References _____ are additional prior art known to Applicant. A copy of these references is being submitted herewith.

Form PTO 1449 (Modified)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY DOCKET NO. 220357US0PCT		SERIAL NO. New US PCT application based on PCT/EP00/09915	
LIST OF REFERENCES CITED BY APPLICANT				APPLICANT Zhijian XUE, et al.			
				FILING DATE Herewith		GROUP	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	AA	4 421 660	12/20/83	Nee Hajna Jitka SOLC			
	AB	4 609 608	09/02/86	Jitka SOLC			
	AC	4 608 401	08/26/86	Robert W. MARTIN			
	AD	5 431 956	07/11/95	John ROBB et al.			
	AE	5 750 618	05/12/98	Hermann-Josef BROSS et al.			
	AF	3 544 500	12/01/70	Desmond OSMOND et al.			
	AG	4 981 882	01/01/91	Oliver W. SMITH et al.			
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION YES NO		
	AH	0 572 128	12/01/93	EP			No
	AI	0 606 930	07/20/94	EP			No
	AJ	2 250 020	05/27/92	GB			No
	AK	0 104 498	09/01/83	EP			No
	AL	2 227 739	08/08/90	GB			No
	AM	0 505 230	03/06/92	EP			No
	AN	0 572 128	05/06/93	EP			No
	AO	11-209622	01/27/98	JP (with English Abstract)			No
	AP	199 42 777	03/15/01	DE			No
OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)							
	AQ	Kunio FURUSAWA et al.: "Syntheses of composite polystyrene latices with silica particles in the core" JOURNAL OF COLLOID AND INTERFACE SCIENCE, vol. 109, no. 1, pages 69-76 01/86					
	AR	Wolf-Dieter HERGETH et al.: "Polymerization in the presence of seeds. Part IV: Emulsion polymers containing inorganic filler particles" POLYMER, vol. 30, pages 254-258 02/89					
	AS	Yutaka HAGA et al.: "Encapsulating polymerization of titanium dioxide" DIE ANGEWANDTE MAKROMOLEKULARE CHEMIE, 189, pages 23-34 1991					
	AT	Fu LONG et al.: "Study on encapsulation of organic polymers in the presence of inorganic sol particles" JOURNAL OF TIANJIN UNIVERSITY, no. 4, pages 10-15 07/13/91					
	AU	E. BOURGEAT-LAMI et al.: "Emulsion polymerization in the presence of colloidal silica particles" DIE ANGEWANDTE MAKROMOLEKULARE CHEMIE, 242, pages 105-122 1996				<input checked="" type="checkbox"/> Additional References sheet(s) attached	
Examiner							
Date Considered							
<p>*Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</p>							

Form PTO 1449 (Modified)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY DOCKET NO. 220357US0PCT		SERIAL NO. New US PCT application based on PCT/EP00/09915	
LIST OF REFERENCES CITED BY APPLICANT				APPLICANT Zhijian XUE, et al.			
				FILING DATE Herewith		GROUP	
OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)							
	AV	Bernd-R. PAULKE et al.: "Synthesis studies on paramagnetic polystyrene latex particles" SCIENTIFIC AND CLINICAL APPLICATION OF MAGNETIC CARRIERS, pages 69-76 1997					
	AW	Christelle BARTHET et al.: "Synthesis of novel polymer-silica colloidal nanocomposites via free-radical polymerization of vinyl monomers" ADVANCED MATERIALS, vol. 11, no. 5, pages 408-410					
	AX						
	AY						
	AZ						
	AAA						
	AAB						
	AAC						
	AAD						
	AAE						
	AAF						
	AAG						
	AAH						
	AAI						
	AAJ						
	AAK						
	AAL						
Examiner						Date Considered	
*Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C08F292/00 C08F2/44

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 C08F C09C B01J

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EP0-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 572 128 A (TIOXIDE GROUP SERVICES LTD) 1 December 1993 (1993-12-01) cited in the application the whole document	1-13
X	EP 0 606 930 A (MITA INDUSTRIAL CO LTD) 20 July 1994 (1994-07-20) the whole document	1-13
X	US 4 421 660 A (SOLC NEE HAJNA JITKA) 20 December 1983 (1983-12-20) cited in the application the whole document	1-13
X	US 4 609 608 A (SOLC JITKA) 2 September 1986 (1986-09-02) the whole document	1-13
	-/-	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

A document defining the general state of the art which is not considered to be of particular relevance

E earlier document but published on or after the international filing date

L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

O document referring to an oral disclosure, use, exhibition or other means

P document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

& document member of the same patent family

Date of the actual completion of the international search

31 January 2001

Date of mailing of the international search report

06/02/2001

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Iraegui Retolaza, E

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 4608401	A		US RE34145 E	15-12-1992
			US 4771086 A	13-09-1988
			AU 3207284 A	05-09-1985
			CA 1255032 A	30-05-1989
			EP 0154739 A	18-09-1985
			JP 60203673 A	15-10-1985
GB 2250020	A	27-05-1992	NONE	
US 5431956	A	11-07-1995	AT 168128 T	15-07-1998
			AU 3848093 A	02-12-1993
			BR 9302082 A	01-03-1994
			CA 2095738 A	30-11-1993
			DE 69319500 D	13-08-1998
			DE 69319500 T	12-11-1998
			DK 572128 T	26-10-1998
			EP 0572128 A	01-12-1993
			ES 2118191 T	16-09-1998
			FI 932463 A	30-11-1993
			GB 2267286 A, B	01-12-1993
			JP 6049109 A	22-02-1994
			MX 9303185 A	01-11-1993
			NO 931903 A	30-11-1993
			NZ 247717 A	22-12-1994
			ZA 9303640 A	21-12-1993
US 5750618	A	12-05-1998	CA 2198447 A	29-08-1997
			DE 19649331 A	04-09-1997
			DE 59700321 D	16-09-1999
			EP 0792891 A	03-09-1997
			ES 2137031 T	01-12-1999
			JP 9235306 A	09-09-1997

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 0572128	A	01-12-1993	AT 168128 T	15-07-1998
			AU 3848093 A	02-12-1993
			BR 9302082 A	01-03-1994
			CA 2095738 A	30-11-1993
			DE 69319500 D	13-08-1998
			DE 69319500 T	12-11-1998
			DK 572128 T	26-10-1998
			ES 2118191 T	16-09-1998
			FI 932463 A	30-11-1993
			GB 2267286 A,B	01-12-1993
			JP 6049109 A	22-02-1994
			MX 9303185 A	01-11-1993
			NO 931903 A	30-11-1993
			NZ 247717 A	22-12-1994
			US 5431956 A	11-07-1995
			ZA 9303640 A	21-12-1993
EP 0606930	A	20-07-1994	JP 1973293 C	27-09-1995
			JP 2147602 A	06-06-1990
			JP 6099491 B	07-12-1994
			JP 2047326 C	25-04-1996
			JP 2148046 A	06-06-1990
			JP 7069635 B	31-07-1995
			DE 68924579 D	23-11-1995
			DE 68924579 T	28-03-1996
			DE 68928351 D	30-10-1997
			DE 68928351 T	09-04-1998
			EP 0371811 A	06-06-1990
			JP 3220203 A	27-09-1991
			US 5104764 A	14-04-1992
US 4421660	A	20-12-1983	AU 551755 B	08-05-1986
			AU 7817081 A	24-06-1982
			BR 8108203 A	05-10-1982
			CA 1188017 A	28-05-1985
			DE 3172083 D	03-10-1985
			EP 0054832 A	30-06-1982
			JP 1695479 C	17-09-1992
			JP 3057921 B	03-09-1991
			JP 57125203 A	04-08-1982
			US 4609608 A	02-09-1986
US 4609608	A	02-09-1986	US 4421660 A	20-12-1983
			AU 551755 B	08-05-1986
			AU 7817081 A	24-06-1982
			BR 8108203 A	05-10-1982
			CA 1188017 A	28-05-1985
			DE 3172083 D	03-10-1985
			EP 0054832 A	30-06-1982
			JP 1695479 C	17-09-1992
			JP 3057921 B	03-09-1991
			JP 57125203 A	04-08-1982
US 4608401	A	26-08-1986	AU 1861783 A	08-03-1984
			AU 576513 B	01-09-1988
			BR 8304723 A	10-04-1984
			CA 1255031 A	30-05-1989
			EP 0104498 A	04-04-1984

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 608 401 A (MARTIN ROBERT W) 26 August 1986 (1986-08-26) the whole document	1-13
X	GB 2 250 020 A (TIOXIDE GROUP SERVICES LTD) 27 May 1992 (1992-05-27) the whole document	1-13
X	US 5 431 956 A (ROBB JOHN ET AL) 11 July 1995 (1995-07-11) the whole document	1-13
X	US 5 750 618 A (BROSS HERMANN-JOSEF ET AL) 12 May 1998 (1998-05-12) the whole document	1-13